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6/5/98  
169911

5 June '98

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IDEM  
100 North Senate Avenue  
P.O. Box 6015  
Indianapolis, IN 46206-6015

Michael McAteer  
USEPA, HSRW-6J  
77 West Jackson Blvd.  
Chicago, IL 60604-3590

**Re: Enviro-Chem Superfund Site  
Monthly Construction Progress Report Number 6  
May 1998**

This Monthly Progress report has been prepared in accordance with Section XII of the Consent Decree entered September 10, 1991, Number 83419C, U.S.D.C. District of Indiana.

**(1) Actions Taken Toward Achieving Compliance with Decree**

- a. Versar completed the following installation activities: water inlet and discharge piping for the mobile water treatment system; air operated double diaphragm dewatering pumps; piping for the carbon backwash system; air discharge piping from the mobile water treatment system was tied into the 13,600 pound carbon canisters; tank level controls were installed on Tanks T-1 thru T-4, Tank S-1 and on knock-out Tanks K-1 & K-2. (100 % complete)
- b. Versar completed installation of all conduit and wiring from the PLC to all level controls and interstitial sumps. (100% complete)
- c. Versar processed 101,000 gallons of contaminated Southern Concrete Pad (SCP) water through the permanent WWT System and the Mobile Treatment System and placed this processed water into Tank T-3. After laboratory analysis and IDEM's approval, this batch of processed water was discharged to the North Ditch. Immediately after the final discharge of the 101,000 gallons of water, Versar began processing 150,000 gallons of contaminated water through the on-site Wastewater Treatment (WWT) System and storing the treated water in Tank T-3. (90 % complete)
- d. Versar completed the northern area keyway and berm this month using select material from both the Littleton and Bankert's Borrow Pits. (100% complete)
- e. Versar retreated the Hot Spot wells and resampled the wells after the second treatment. Laboratory results on the second treatment removal efficiency are due the week of 1 June.

- f. The ECC Process Building, Northern and Southern Concrete Pads have all been demolished, crushed, sorted and stockpiled ready to be used in the SVE trenches. (100% complete)
- g. All of the compliance monitoring wells and an additional hot spot well have been installed by the Trustees. (100% complete)
- h. The pink colored liquid discovered under the SCP was treated with hydrogen peroxide in the Frac Tanks. After treatment, this water was transferred to tank T-1 and is being processed through the WWT system. We are awaiting laboratory analyses at this time, for submittal and approval by IDEM before discharge.
- i. The 20 ft x 20 ft sump (previously not detectable because of the SCP) was located at the south eastern corner of the SCP now that the pad has been removed. However, the sump depth from top of the concrete pad was 8 feet, significantly shallower than anticipated. The well in the center of the sump (ECC-12) was properly abandoned. However, grouting of the shallow sump was not required because of the lack of a hydraulic connection to ground water, as approved by the Engineer. (100 % complete)
- j. Versar removed the two vertically placed 55-gallon drums in the southeastern corner of the SCP. In addition, a 4-inch schedule 40 underground pipe was uncovered. The pipe was chased to the fence line, cutoff, and capped. (100 % complete)
- k. Geotechnical sampling and analyses were completed on the Bankert's Borrow Pit material. It was determined that this material is suitable for use as select fill. This borrow material is presently being used in the construction of the keyway/berms. (100% complete)
- l. Versar began to install the SVE trenches and piping systems in the north field native soil. (30% complete)
- m. Versar obtained approval from IDEM and properly abandoned 18 monitoring wells (this is six more than previously identified). (100% complete)
- n. The SCP sub-base is being excavated. Workers have been in level B PPE. (40 % complete)
- o. The perimeter air monitoring stations have been set in place in preparation for the SCP area excavation. (10 % complete)
- p. Environ continued weekly conference calls with USEPA, IDEM, Trustees and Versar on May 1, 8, 15, 22 and 29, 1998.

**(2) Validated Results and Other Data**

The only validated data generated during this month relates to the process water from the SCP. This data was submitted under separate cover on May 19, 1998, to IDEM.

**(3) Additional Work Performed**

There was no "Additional Work" within the meaning of the Consent Decree. Work completed this month under Revised Exhibit A includes the steps identified in items (1) a through (1) p above.

**(4) Anticipated Activities for Next Month**

- a. Versar will finish installation of the SVE trenching and piping in the Northern area native soil.
- b. Versar will start-up and check-out the SVE equipment and system in the Process Building.
- c. Versar will continue to process and store accumulated water from the SCP excavation and exclusion zone. After laboratory analyses to assure that discharge criteria are met. The processed water will be discharged to the north ditch.
- d. Versar will excavate and backfill the SCP area.
- e. Versar will place the excavated SCP area soil on top of the north area native soil SVE System.
- f. Versar will install the SVE System in the south pad soil material on the north area.
- g. Versar will install the SVE System in the central area.
- h. Versar will begin to install the Stage (1) cap on the north area.

**(5) Problems & Resolution**

The updated construction schedule is attached.

Photographs of site activities taken during the month are attached.

If you have any questions, please feel free to call me at (215) 788-7844, Extension 222

Sincerely,



G. J. Anastos, Ph.D., P.E.  
Project Manager

attachments

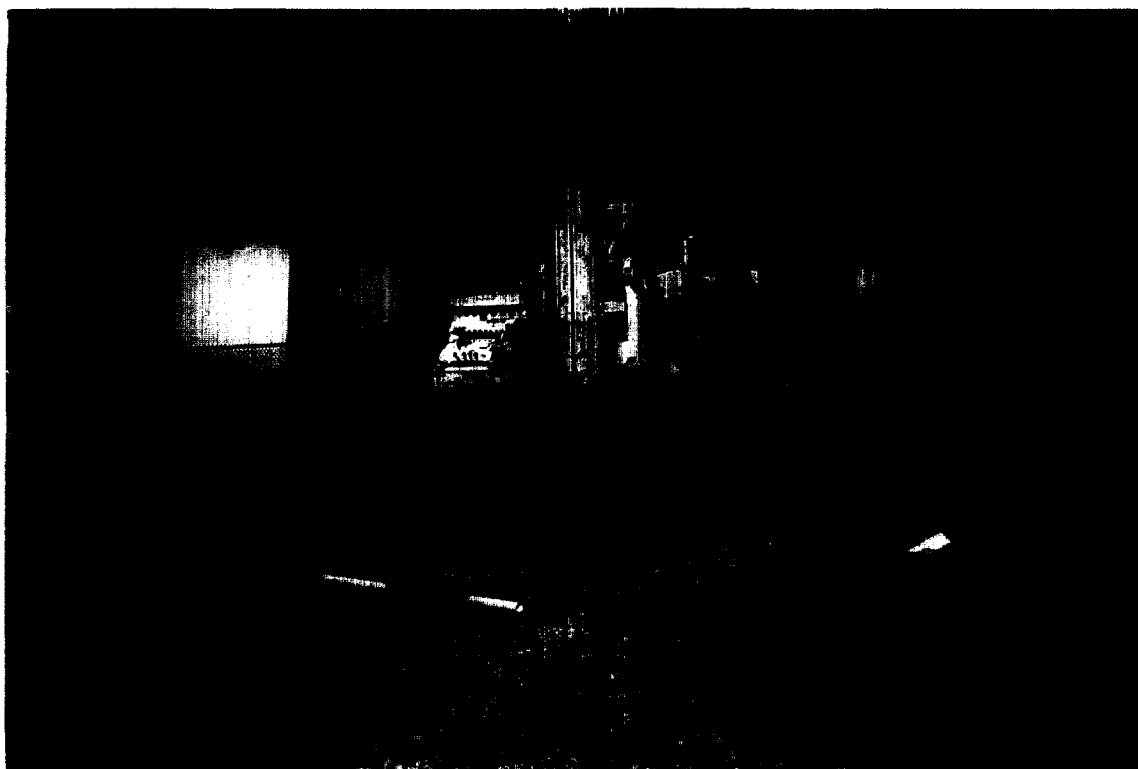
cc:	D Basko (Versar)	J Freeman (DOJ)
	R Ball (ENVIRON)	C Gaffney (Versar)
	Joe Borucki (Versar)	R Hutchens (ENVIRON)
	N Bernstein (NEB & A)	J Kyle, III (B & T)
	M Dowiak (Radian)	G Scarpone (Handex)

## **Updated Construction Schedule**

## **Site Photographs**

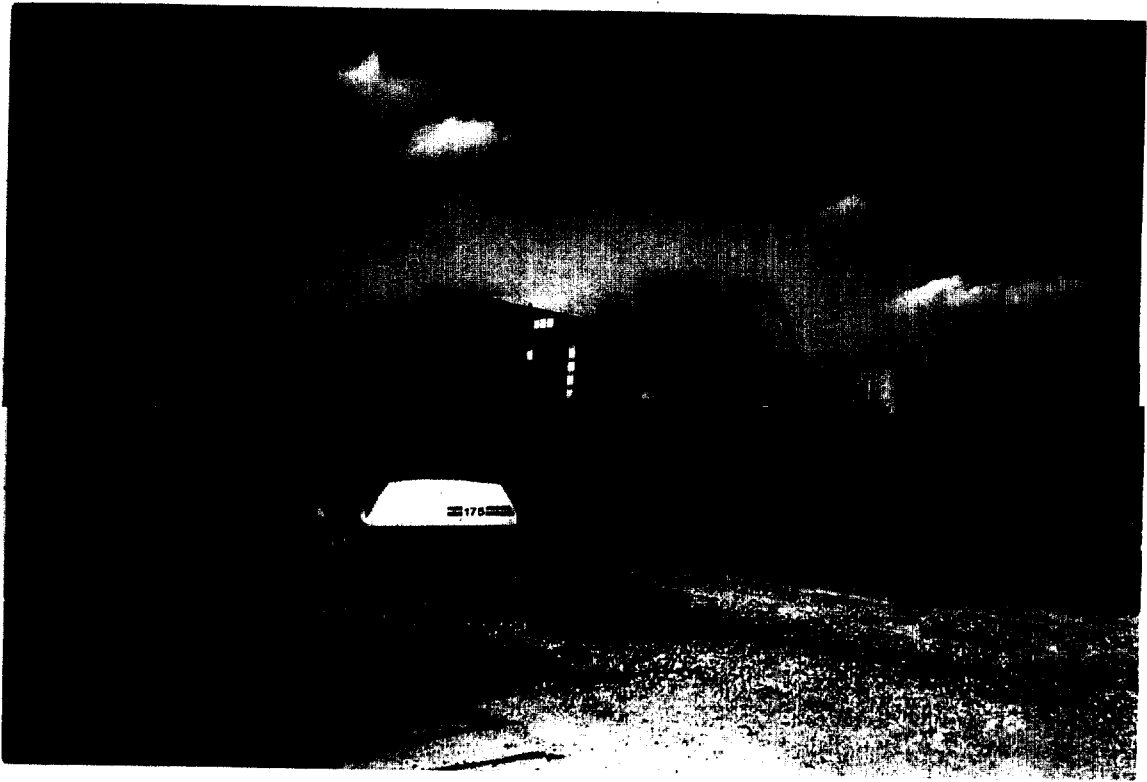


**Photograph #1: Hydrogen peroxide treatment system for treatment of pink water in Frac Tank #1.**

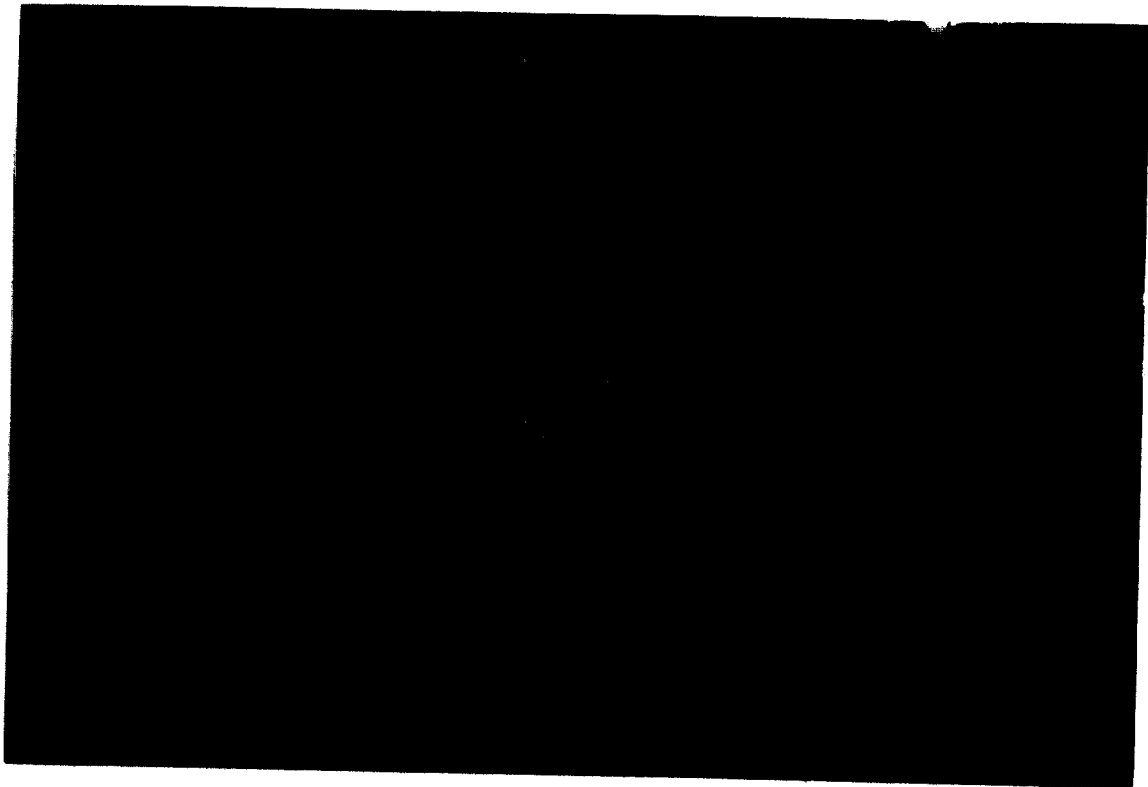


**Photograph #2: Trustee's well driller installing Hot Spot monitoring well.**





**Photograph #3: Photo showing concrete crusher on site.**



**Photograph #4: View looking east showing water level discharge from offsite to ECC north ditch.**



**Photograph #5: Closeup view of north berm/keyway under construction.**



**Photograph #6: Excavation of 4-inch PVC pipe to the fence line. Note that pipe extends beyond fence.**



**Photograph #7: Water in the bottom of the Test Pit and sandy gravel material at the bottom of the excavation.**



**Photograph #8: 55 gallon drums removed from the SCP area.**